

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Michael WILHELM

Attorney Docket Q63455

Appln. No.: not yet assigned

Group Art Unit: not yet assigned

Confirmation No.: not yet assigned

Examiner: not yet assigned

Filed: March 22, 2001

For: RADIO COMMUNICATIONS SYSTEM AND COMPONENTS FOR A METHOD OF  
RADIO TRANSMISSION BY VARIOUS RADIO TRANSMISSION MODES

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

**IN THE SPECIFICATION:**

**The specification is changed as follows:**

Page 1, after the title, insert the heading

**BACKGROUND OF THE INVENTION**

Page 2, line 6 (according to the line numbering), insert the heading

**SUMMARY OF THE INVENTION**

Page 5, line 20, insert the heading

**BRIEF DESCRIPTION OF THE DRAWINGS**

Page 6, before line 1, insert the heading

**DETAILED DESCRIPTION OF THE INVENTION**

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**IN THE ABSTRACT:**

**Please delete the present Abstract of the Disclosure and replace it with the following  
new Abstract of the Disclosure.**

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## Abstract

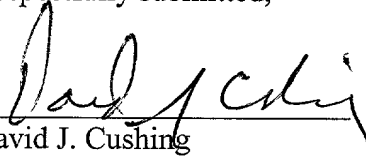
A radio communications system and method in which at least one base station (BS1) also contains a transceiver in order to transmit and receive by various radio transmission modes (DECT, GSM, UMTS), and in which the base station (BS1) is connected to a controller (RRM) which determines an availability value for each of the various radio transmission modes (DECT, GSM, UMTS) with the aid of preselectable criteria and controls the base station (BS1) in order to transmit to a wireless subscriber terminal (MT) an identification code at least for the radio transmission mode (DECT) which has the highest availability value. At least the radio transmission mode (DECT) which has the best instantaneous availability in the coverage area of the base station (BS1) is offered to the subscriber terminal (MT) by the base station (BS1). The controller (RRM) connected to all base stations can carry out this function centrally in order to utilise the radio resources of the entire system, which is preferably designed as multi-standard system.

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REMARKS

Entry and consideration of this Amendment are respectfully requested.

Respectfully submitted,



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Date: March 22, 2001

**APPENDIX**

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE SPECIFICATION:**

The specification is changed as follows:

Page 1, after the title, insert the heading

**BACKGROUND OF THE INVENTION**

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**SUMMARY OF THE INVENTION**

Page 5, line 20, insert the heading

**BRIEF DESCRIPTION OF THE DRAWINGS**

Page 6, before line 1, insert the heading

**DETAILED DESCRIPTION OF THE INVENTION**

**IN THE ABSTRACT OF DISCLOSURE:**

The abstract is changed as follows:

Abstract

~~Radio communications system and components for a method of radio transmission by various~~  
~~radio transmission modes~~

A radio communications system is ~~proposed~~ and method in which ~~the~~ at least one base station  
(BS1) also contains a transceiver in order to transmit and receive by various radio transmission

modes (DECT, GSM, UMTS), and in which the ~~at least one~~ base station (BS1) is connected to a ~~control means~~controller (RRM) which determines an availability value for each of the various radio transmission modes (DECT, GSM, UMTS) with the aid of preselectable criteria and controls the base station (BS1) in order to transmit to ~~the~~ wireless subscriber terminal (MT) an identification code at least for the radio transmission mode (DECT) which has the highest availability value. ~~In addition, a method of radio transmission with corresponding features is proposed.~~

~~Owing to the invention proposed, it is achieved that a~~ At least the radio transmission mode (DECT) which has the best instantaneous availability in the coverage area of the base station (BS1) is offered to the subscriber terminal (MT) by the base station (BS1). ~~A control means~~ The controller (RRM) connected to all base stations can carry out this function centrally in order to utilise the radio resources of the entire system, which is preferably designed as multi-standard system, ~~very efficiently. The gradual introduction of new technology, in particular new standards (UMTS), into the radio communications system is possible and is therefore very simple and cost efficient.~~

(Fig. 1)